



Department of Agricultural, Forest and Food Sciences
(DISAFA), University of Turin



The Chestnut tree: a resource for the socio-economic revival of inland areas in a bio-economy perspective



Stefano Bruzzese, Simone Blanc, Filippo Brun

IUFRO Conference "The social and ecological value added of small-scale forestry to the Bio-Economy" - 7-8 October 2020

CASTAGNOPIÙ PROJECT



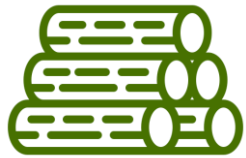
Funded by: EAFRD from the “Innovation and Cooperation” measure (**RDP 2014-2020**, Piedmont Region – NW Italy)



Research Goal: valorisation of chestnut stands, through various activities including the creation of new processing chains and their **economic evaluations**



Potential supply of the resource



Real supply of the resource

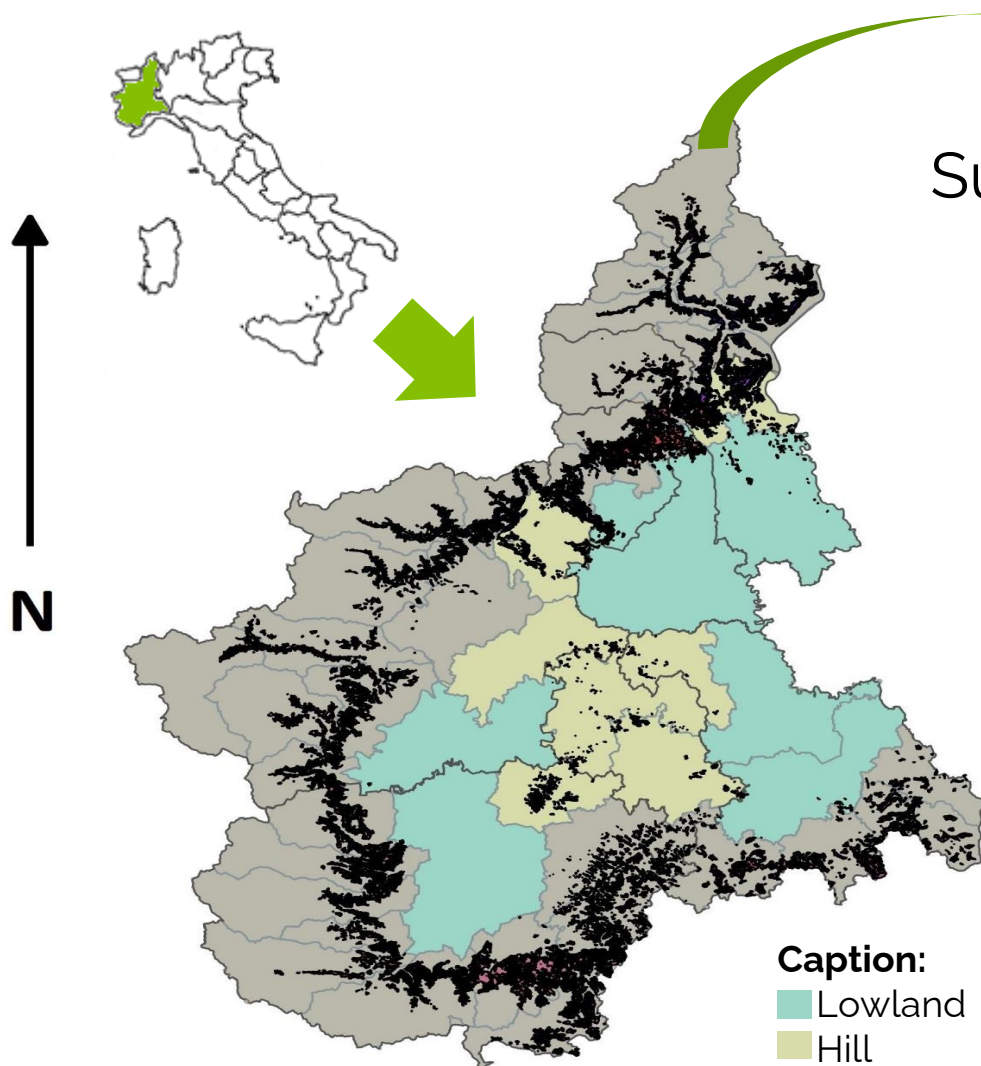


Potential strategies for the valorisation of the resource, in line with the Sustainable Development Goals (UN Agenda 2030)

RESEARCH PURPOSES



Chestnut Distribution in Piedmont

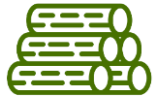


Surface: ~ 207,000 ha (~ 20% of the regional forest area)

~ 750k m³y⁻¹

Potential Assortments	%
Lumber	10
Poles	15
Woodchips and Shavings	55
Fire wood	20
Total	100

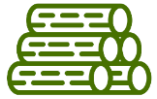
**POTENTIAL
SUPPLY**



2018 forest season in Piedmont Region

- **1,244 cutting activities** were carried out
- ~ **1,300 ha** involved (~0.6% of the regional forest area)
- Most of logging activities are small cuts (**0.5 ha**) with unit volumes of **20 mc/cut**

REAL SUPPLY



2018 forest season in Piedmont Region

Assortments	Self-consumption		Marketed	
	mc	%	mc	%
Lumber and Poles	-	0	10,807	10
Woodchips and Shavings	1,008	1	52,071	47
Fire wood	9,195	8.5	35,370	32
<i>In situ</i>	1,593	1.5	-	0
Total	11,796	11	98,248	89



~ 110k m³y⁻¹

REAL SUPPLY

Potential supply = ~ 750k m³y⁻¹

Real supply = ~ 110k m³y⁻¹



Felling rate:

~ 15%



N. of Piedmontese enterprises of forest supply chain

Updated to 2019

533



logging phase

Updated to 2014

195



1st processing phase

Updated to 2014

3,065



2nd processing phase

**FORESTRY
ENTERPRISES**

**Resource
based**

**Market
based**

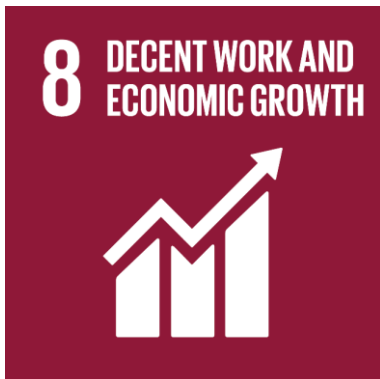
**Policy
based**

POTENTIAL VALORISATION STRATEGIES



- Local and regional **land associations**
- **Active** and **sustainable management** of the resource
- Enhancing of the **NWFP's** and **ecosystem services**

SDGs INVOLVED

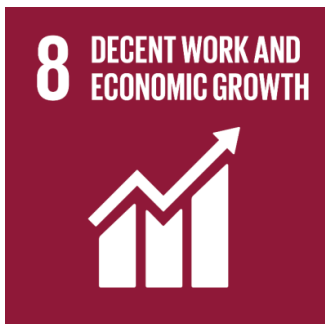


RESOURCE BASED



- Creation of **business networks** - or other types of cooperation - between stakeholders
- Establishment of a **quality brand**, useful to certify quality, origin and sustainability of the resource
- Introducing **product innovation** and **advanced technological innovation** for primary and secondary processing enterprises

SDGs INVOLVED

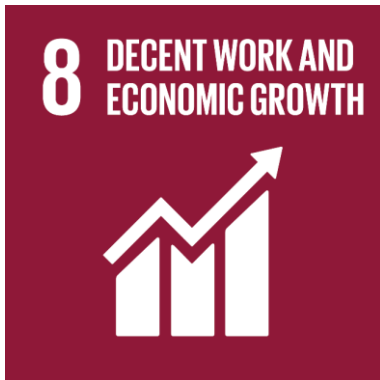


MARKET BASED



- Adoption of **policies and programmes** at local and national level
- **Sensibilisation** for stakeholders (e.g., decision makers, technicians) and civil society
- **Training activities** for operators in the forestry sector and **research development**

SDGs INVOLVED



POLICY BASED



- The creation of **networks**, which integrate different sectors and heterogeneous territorial realities
- The **commitment of the private sector** to the reorganisation of the supply chain, accompanied by coherent **public policy action**
- The adoption of **targeted** and **bottom-up policies** for the **sharing of knowledge** and **traditions** in a modern key

CONCLUSIONS

For further information:

stefano.bruzzese@unito.it

ResearchGate® Project:

<https://www.researchgate.net/project/CastagnoPiu>

Bruzzese, S.; Blanc, S.; Brun, F. *Strategies for the Valorisation of Chestnut Resources in Italian Mountainous Areas from a Sustainable Development Perspective*. Resources 2020, 9, 60:
<https://www.mdpi.com/2079-9276/9/5/60/htm>



THANKS FOR YOUR ATTENTION!